# DMMP/EIS Proposed Winter of 2002-2003 Dredging & Disposal

Walla
Walla
District

# Dredged Material Management Plan/EIS

| Site to be Dredged | Quantity to be Dredged (cubic yards) |
|---|---|
| Federal Navigation Channel at Confluence of Snake & Clearwater Rivers | 250,500 |
| Port of Clarkston | 9,600 |
| Port of Lewiston | 5,100 |
| Hells Canyon Resort Marina | 3,600 |
| Greenbelt Boat Basin | |

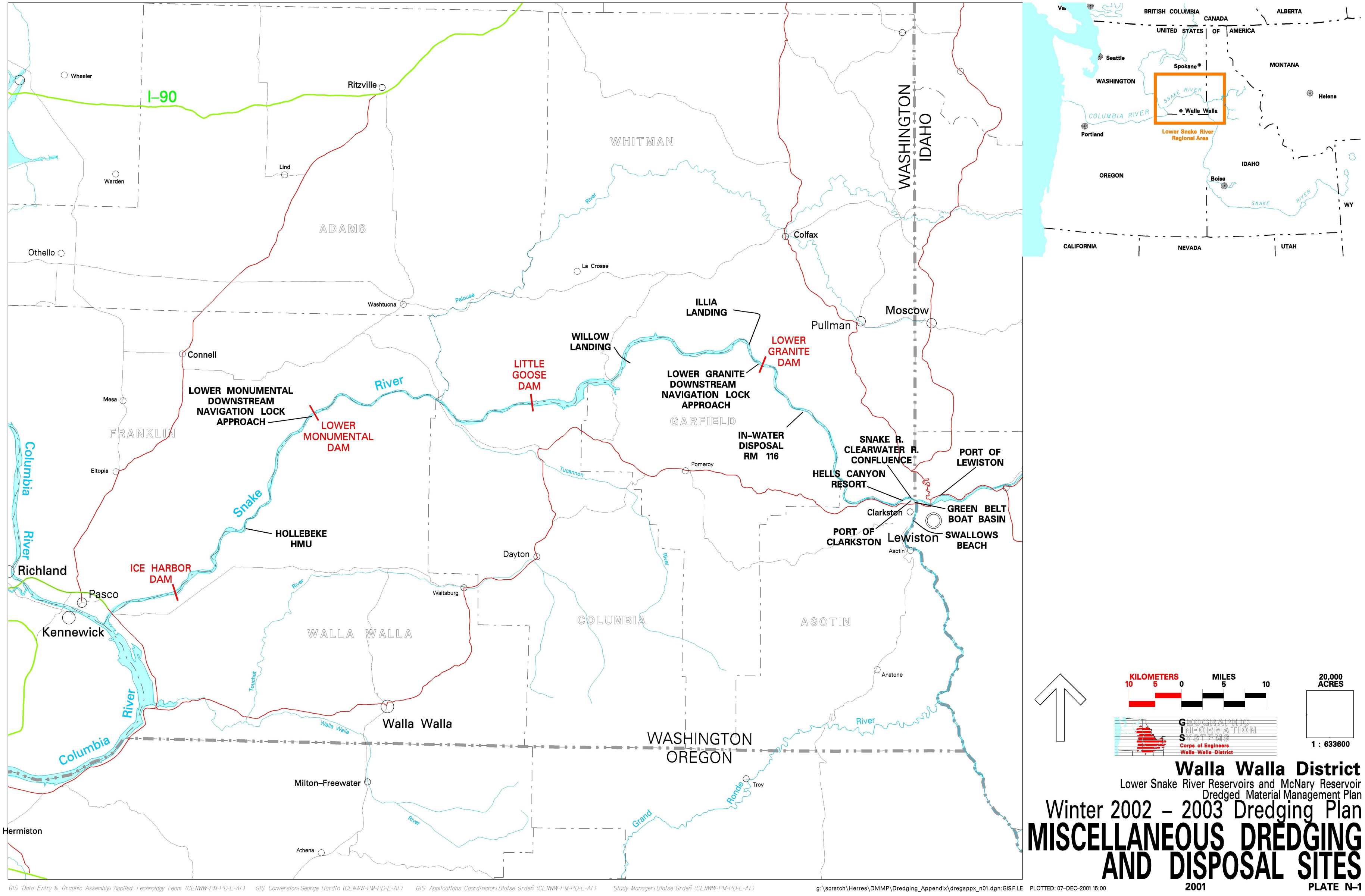
Walla
Walla
District

# Dredged Material Management Plan/EIS

Quantity to
be
Site to be Dredged
Dredged
Swallows Park Swim Beach/
(cubic yards)
11,000
Boat Basin 5,000
Lower Granite Navigation
4,000
Lock Approach
Lower Monumental Navigation
20,000
Lock Approach

# Dredged Material Management

Walla


I–90
Wheeler
Ritzville
Lind
Warden
WHITMAN
ADAMS
FRANKLIN
GARFIELD
COLUMBIA
ASOTIN
WALLA WALLA
WASHINGTON
IDAHO
WASHINGTON
OREGON
Othello
Colfax
La Crosse
Washtucna
Palouse
River
Pullman
Moscow
Connell
Mesa
Eltopia
ILLIA LANDING
WILLOW LANDING
LOWER GRANITE DAM
LITTLE GOOSE DAM
LOWER GRANITE DOWNSTREAM NAVIGATION LOCK APPROACH
LOWER MONUMENTAL DOWNSTREAM NAVIGATION LOCK APPROACH
LOWER MONUMENTAL DAM
IN–WATER DISPOSAL RM 116
SNAKE R. CLEARWATER R. CONFLUENCE
HELLS CANYON RESORT
PORT OF LEWISTON
GREEN BELT BOAT BASIN
SWALLOWS BEACH
PORT OF CLARKSTON
Clarkston
Lewiston
Asotin
Pomeroy
Tucannon
Snake
River
HOLLEBEKE HMU
ICE HARBOR DAM
Richland
Pasco
Kennewick
Columbia
River
Dayton
Waitsburg
Touchet
Walla Walla
Walla Walla
Milton–Freewater
Athena
Hermiston
Anatone
Troy
Grande
Ronde
River
Vancouver
BRITISH COLUMBIA
ALBERTA
CANADA
UNITED STATES OF AMERICA
Seattle
Spokane
MONTANA
WASHINGTON
Helena
SNAKE RIVER
COLUMBIA RIVER
Walla Walla
Portland
Lower Snake River Regional Area
IDAHO
OREGON
Boise
SNAKE RIVER
WY
CALIFORNIA
NEVADA
UTAH
KILOMETERS
10
5
0
MILES
5
10
20,000 ACRES
1 : 633600
GEOGRAPHIC INFORMATION SYSTEMS
Corps of Engineers
Walla Walla District

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan
Winter 2002 – 2003 Dredging Plan

**MISCELLANEOUS DREDGING AND DISPOSAL SITES**

2001

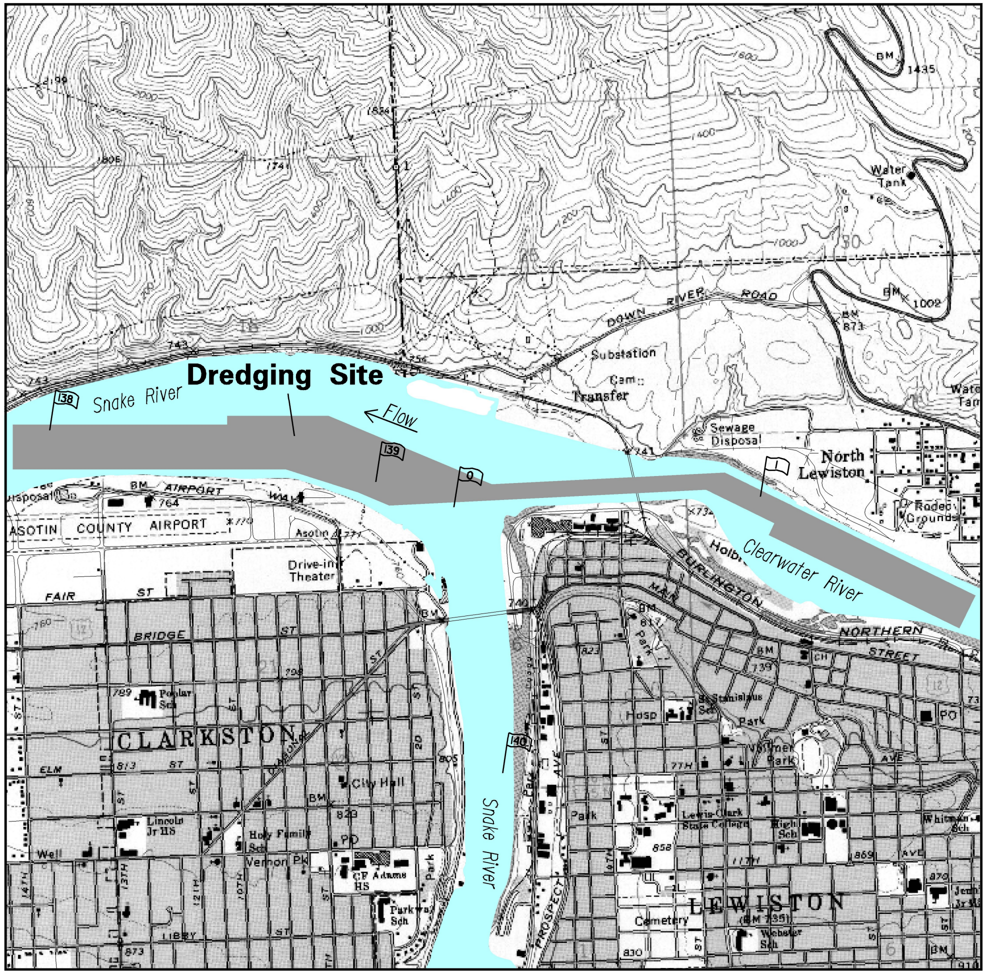
PLATE N–1

GIS Data Entry & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT) GIS Conversion: George Hardin (CENWW-PM-PD-E-AT) GIS Applications Coordinator: Blaise Grdeñ (CENWW-PM-PD-E-AT) Study Manager: Blaise Grdeñ (CENWW-PM-PD-E-AT)

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n01.dgn:GISFILE PLOTTED: 07–DEC–2001 15:00

# Dr

**Walla Walla District**


Dredging Site
Snake River
Flow
Clearwater River
Snake River
138
139
0
1
140
North Lewiston
Sewage Disposal
Substation
Cam
Transfer
DOWN RIVER ROAD
ASOTIN COUNTY AIRPORT
Drive-in Theater
FAIR ST
BRIDGE ST
CLARKSTON
City Hall
Lincoln Jr HS
Holy Family Sch
Vernon Pk
CF Adams HS
Parkway Sch
Poplar Sch
Well
ELM ST
LIBBY ST
PROSPECT AVE
Park AVE
LEWISTON
Cemetery
Webster Sch
Lewis-Clark State College
High Sch
Hosp
St Stanislaus Sch
Park
Vollmer Park
Whitman Sch
Jenifer Jr HS
PO
BURLINGTON NORTHERN
MAIN ST
NORTHERN STREET
Water Tank
Rodeo Grounds

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000

METERS 300 100 0 FEET 500 1000 2000

20 ACRES 10 5

1 : 24,000

GEOGRAPHIC INFORMATION SYSTEMS
Corps of Engineers
Walla Walla District

Clarkston, WA. USGS 7.5 Minute Quadrangle. Township 11 N, Range 46 E.

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

## SNAKE AND CLEARWATER CONFLUENCE SITE

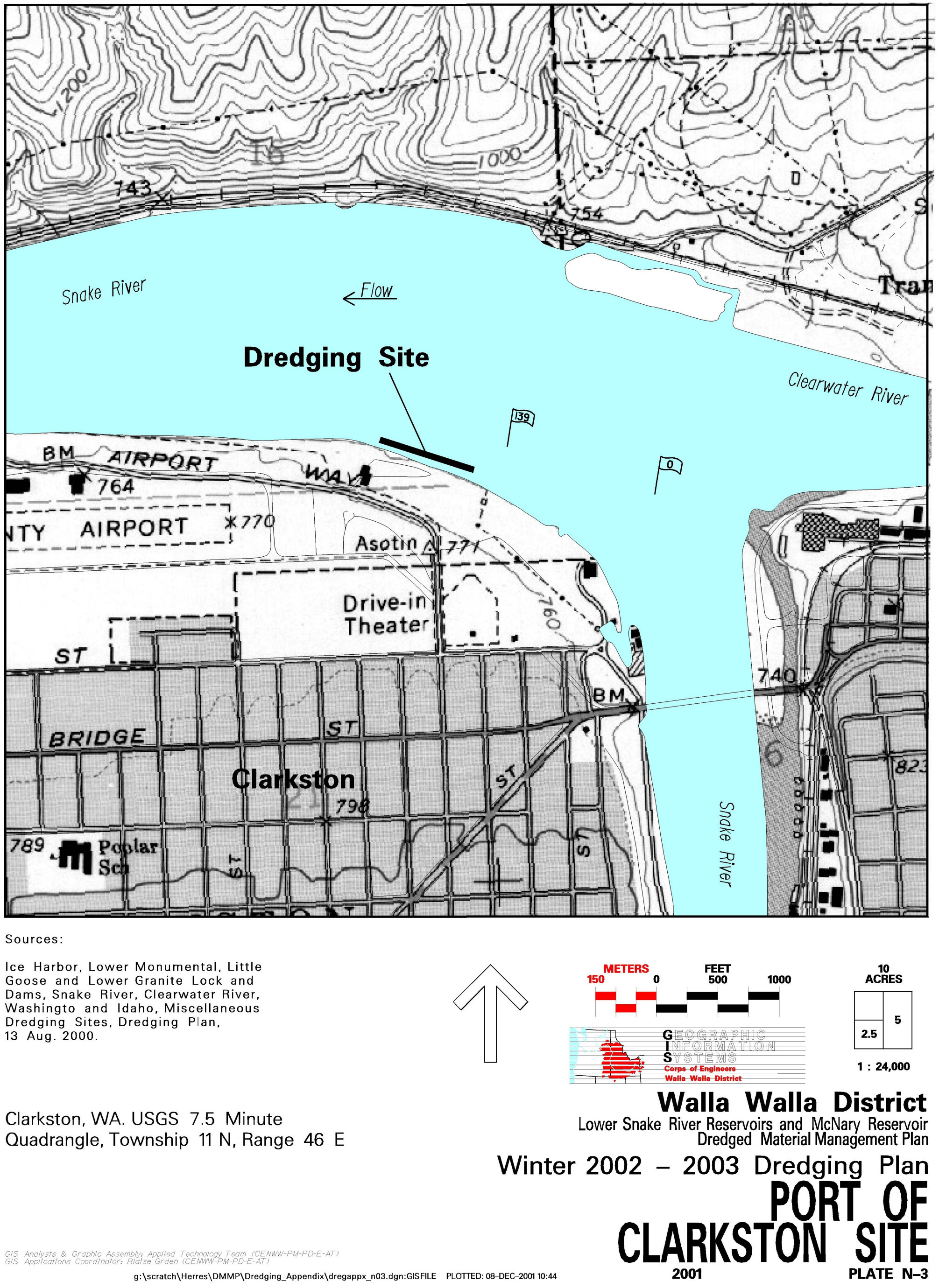
**2001** **PLATE N–2**

*GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)*
*GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)*

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n02.dgn:GISFILE PLOTTED: 08–DEC–2001 10:32

# Dr

**Walla**
**Walla**
**District**


Snake River
Flow
Dredging Site
Clearwater River
139
0
BM
AIRPORT
WAY
764
AIRPORT
770
Asotin
771
Drive-in
Theater
760
ST
BRIDGE
ST
Clarkston
798
ST
ST
ST
789
Poplar
Sch
740
BM
823
Snake River
743
754
1000
1200
16
D
21
6
METERS
150
0
FEET
500
1000
10
ACRES
5
2.5
1 : 24,000
GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washington and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

Clarkston, WA. USGS 7.5 Minute Quadrangle, Township 11 N, Range 46 E

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

**PORT OF CLARKSTON SITE**

2001

PLATE N–3

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

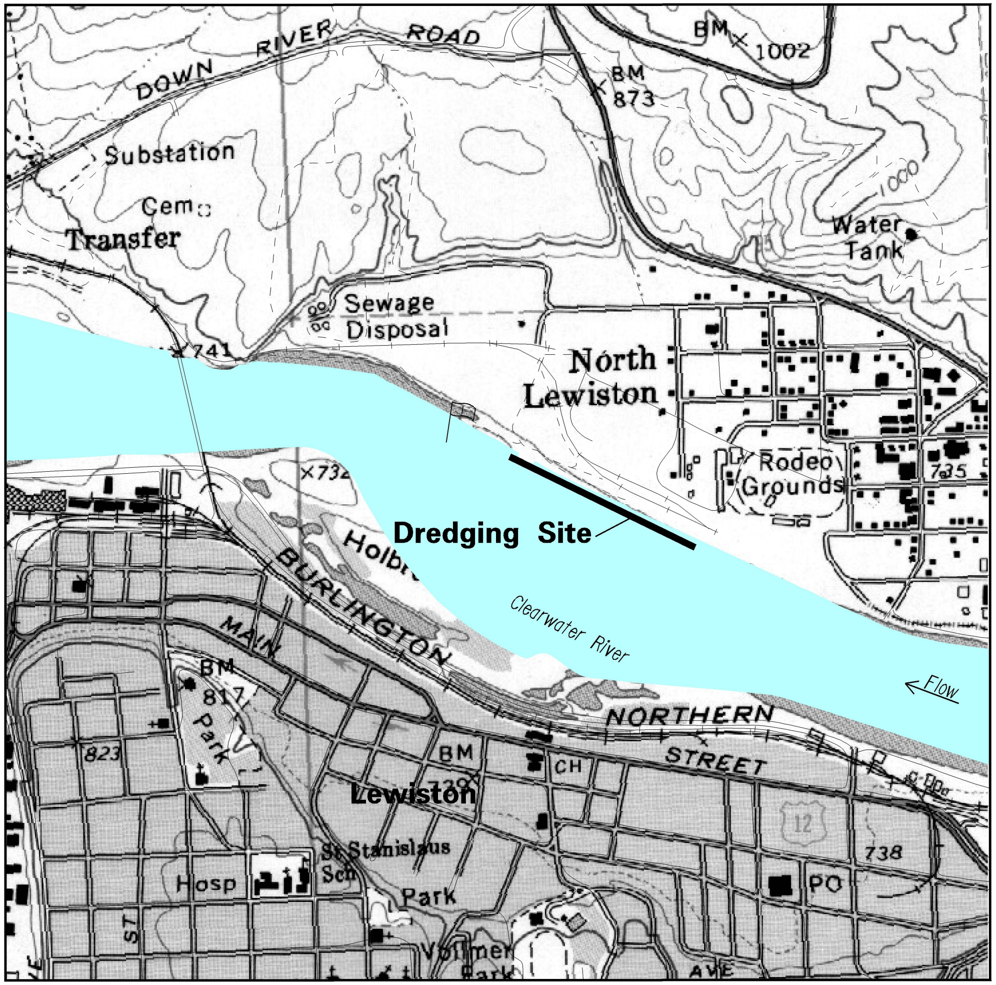
g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n03.dgn:GISFILE PLOTTED: 08–DEC–2001 10:44

# Dr

**Walla**

**Walla**

**District**


DOWN RIVER ROAD
BM 1002
BM 873
Substation
Cem
Transfer
1000
Water Tank
Sewage Disposal
741
North Lewiston
Rodeo Grounds
735
732
Dredging Site
Holbr
BURLINGTON
MAIN
Clearwater River
Flow
BM 817
Park
823
NORTHERN
STREET
BM 729
CH
Lewiston
12
738
St Stanislaus Sch
Park
Hosp
PO
ST
Vollmer Park
AVE

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washington and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

Clarkston, WA. USGS 7.5 Minute Quadrangle, Township 11 N, Range 46 E.

METERS
150 0
FEET
500 1000

10 ACRES
2.5
5
1 : 24,000

GEOGRAPHIC INFORMATION SYSTEMS
Corps of Engineers
Walla Walla District

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

## PORT OF LEWISTON SITE

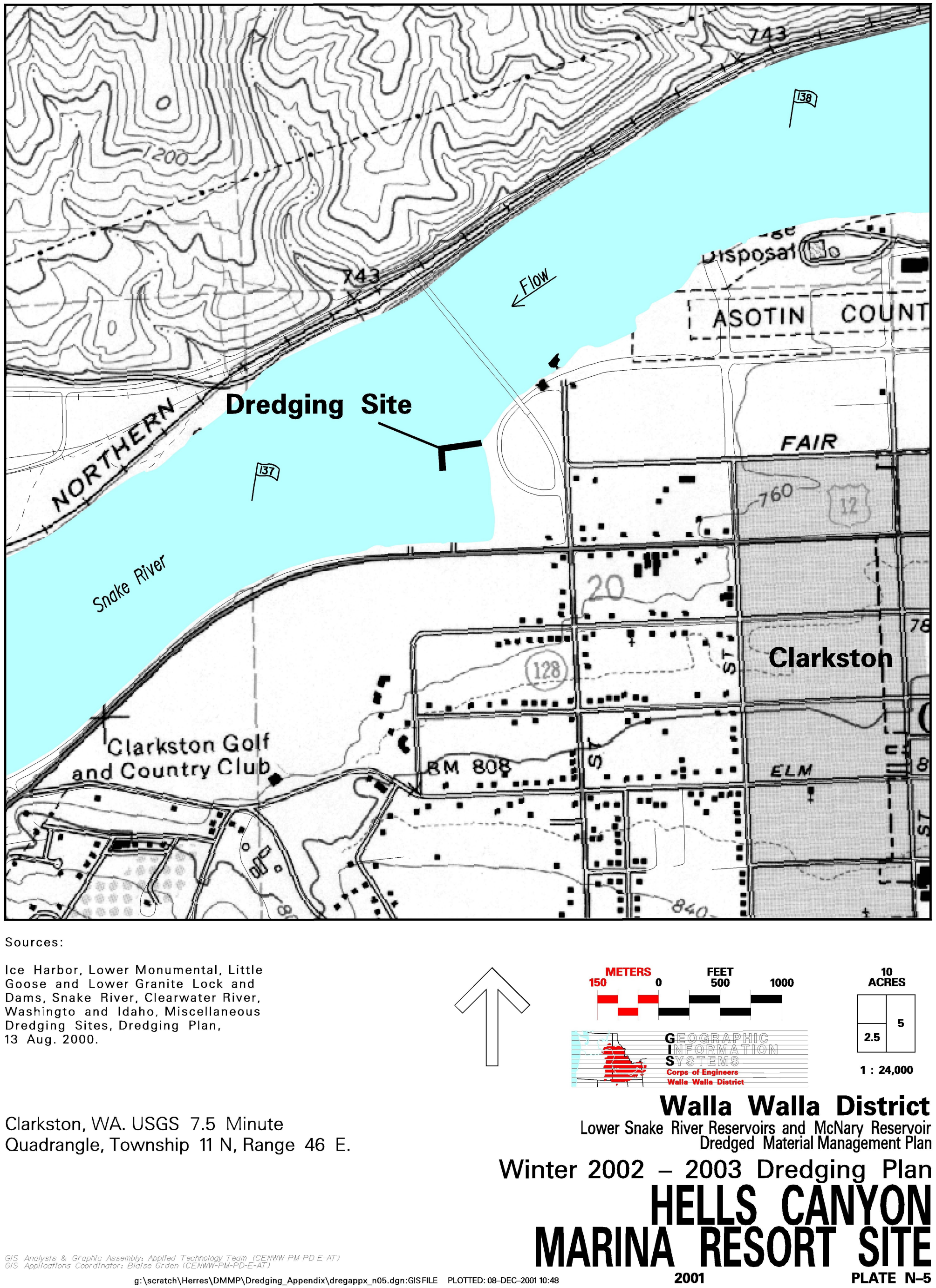
**2001** **PLATE N–4**

*GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)*
*GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)*

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n04.dgn:GISFILE PLOTTED: 08–DEC–2001 10:46

# Dr

Walla
Walla
District


743
138
1200
743
Flow
Disposal
ASOTIN COUNT
Dredging Site
NORTHERN
137
FAIR
760
12
Snake River
20
78
128
ST
Clarkston
Clarkston Golf
and Country Club
BM 808
ST
ELM
ST
840
METERS
150
0
FEET
500
1000
10
ACRES
5
2.5
1 : 24,000
GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

Clarkston, WA. USGS 7.5 Minute
Quadrangle, Township 11 N, Range 46 E.

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

**HELLS CANYON**
**MARINA RESORT SITE**

2001

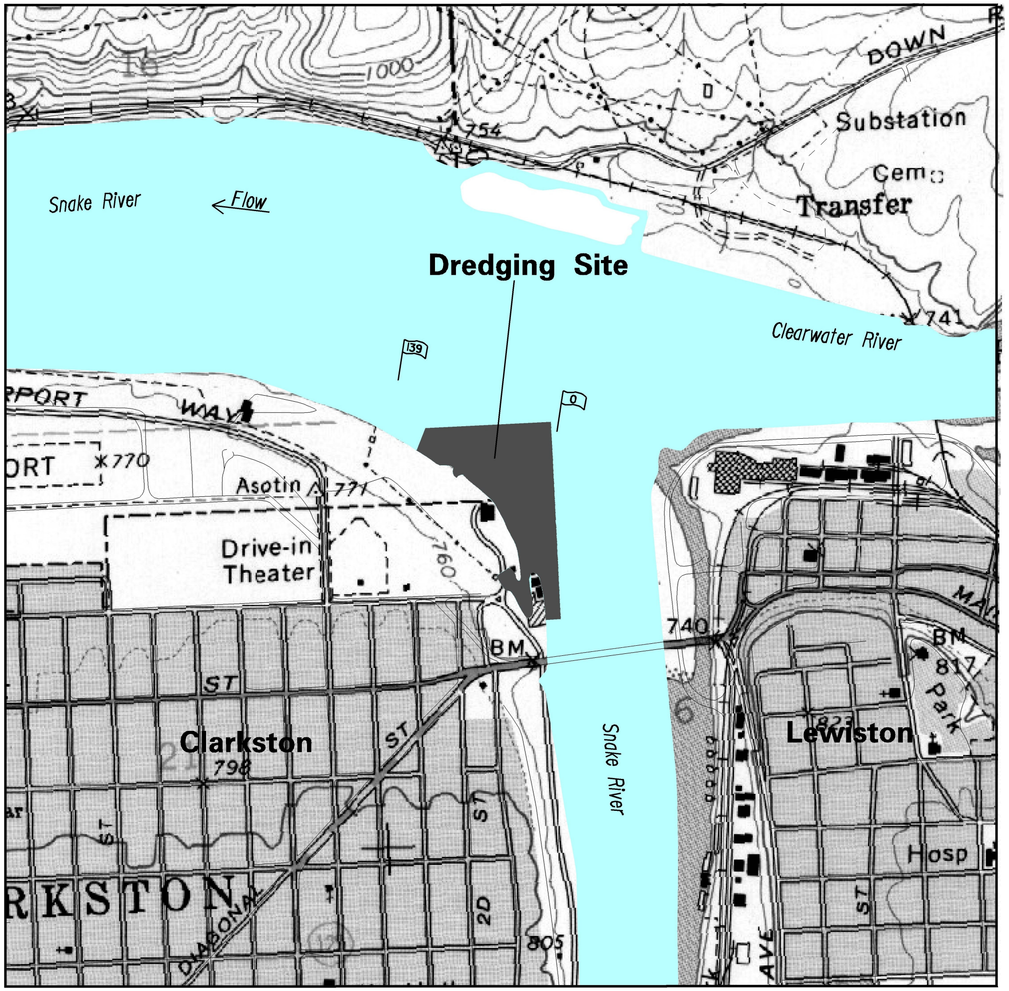
PLATE N–5

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n05.dgn:GISFILE PLOTTED: 08–DEC–2001 10:48

# Dr

Walla
Walla
District


DOWN
Substation
Cem
Transfer
1000
754
D
Snake River
Flow
Dredging Site
Clearwater River
741
139
0
PORT
WAY
ORT
770
Asotin
771
Drive-in Theater
760
740
BM
ST
Clarkston
798
ST
ST
RKSTON
DIAGONAL
2D
805
Snake River
Lewiston
823
BM
817
Park
MAI
Hosp
ST
AVE

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washington and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

Clarkston, WA. USGS 7.5 Minute Quadrangle, Township 11 N, Range 46 E.

METERS 150 0
FEET 500 1000

10 ACRES
5
2.5
1 : 24,000

GEOGRAPHIC INFORMATION SYSTEMS
Corps of Engineers
Walla Walla District

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

**GREEN BELT BOAT BASIN SITE**

2001

PLATE N-6

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

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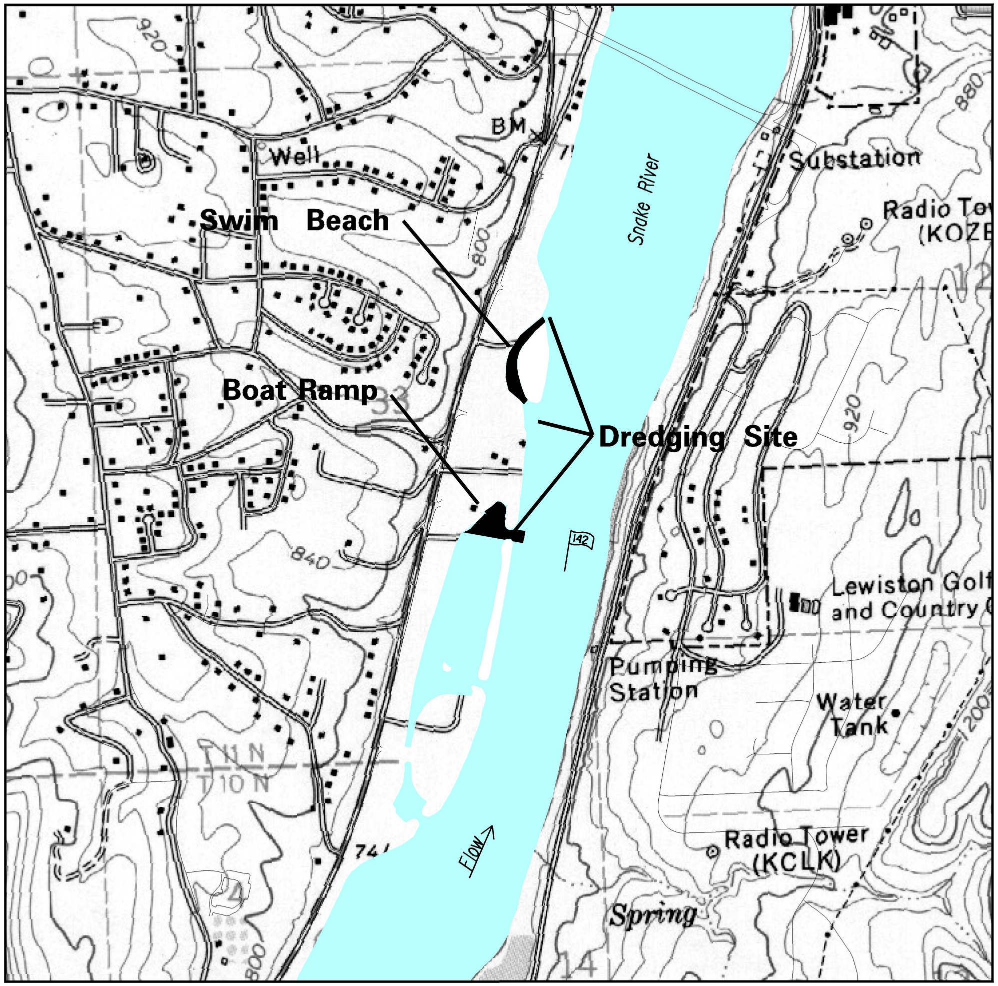
# Dr

**Walla Walla District**


920
Well
BM
Swim Beach
800
Snake River
Substation
880
Radio To
(KOZE
Boat Ramp
33
Dredging Site
920
142
840
Lewiston Golf
and Country
Pumping
Station
Water
Tank
1200
T11 N
T10 N
741
Flow
Radio Tower
(KCLK)
Spring
800
14

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000

Clarkston, WA. USGS 7.5 Minute
Quadrangle, Township 11 N, Range 46 E

METERS 150 0
FEET 500 1000

10 ACRES
5
2.5
1 : 24,000

GEOGRAPHIC INFORMATION SYSTEMS
Corps of Engineers
Walla Walla District

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

## SWALLOWS BEACH/ BOAT RAMP SITE

2001

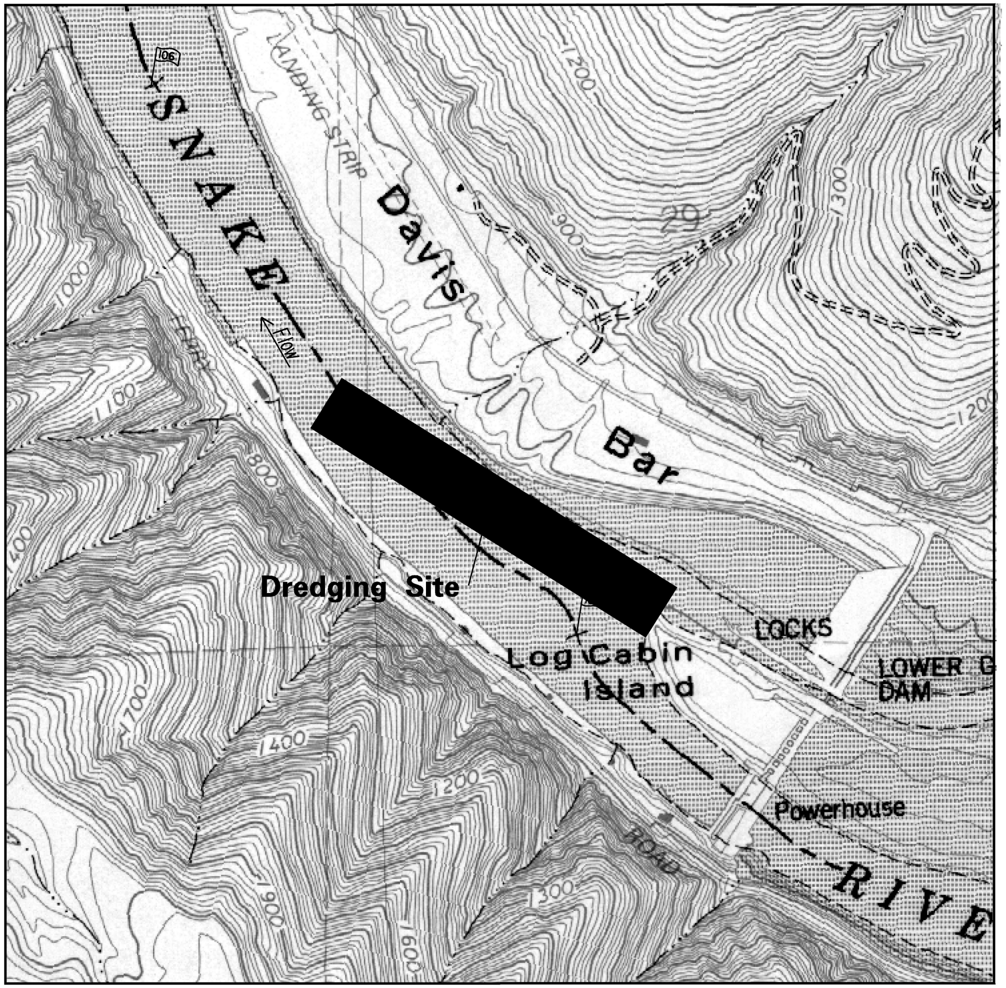
PLATE N–7

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n07.dgn:GISFILE PLOTTED: 08–DEC–2001 10:51

# Dr

**Walla**
**Walla**
**District**


106
SNAKE
LANDING STRIP
Davis
Bar
FLOW
Dredging Site
Log Cabin
Island
LOCKS
LOWER G
DAM
Powerhouse
ROAD
RIVE
1200
1300
900
1000
1100
800
1400
1700
1900
1600
29

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

METERS
150 0
FEET
500 1000

10
ACRES
5
2.5
1 : 24,000

GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

Almota, WA. USGS 7.5 Minute
Quadrangle, Township 14 N, Range 43 E

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan
**LOWER GRANITE DAM**
**NAVIGATION LOCK SITE**

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

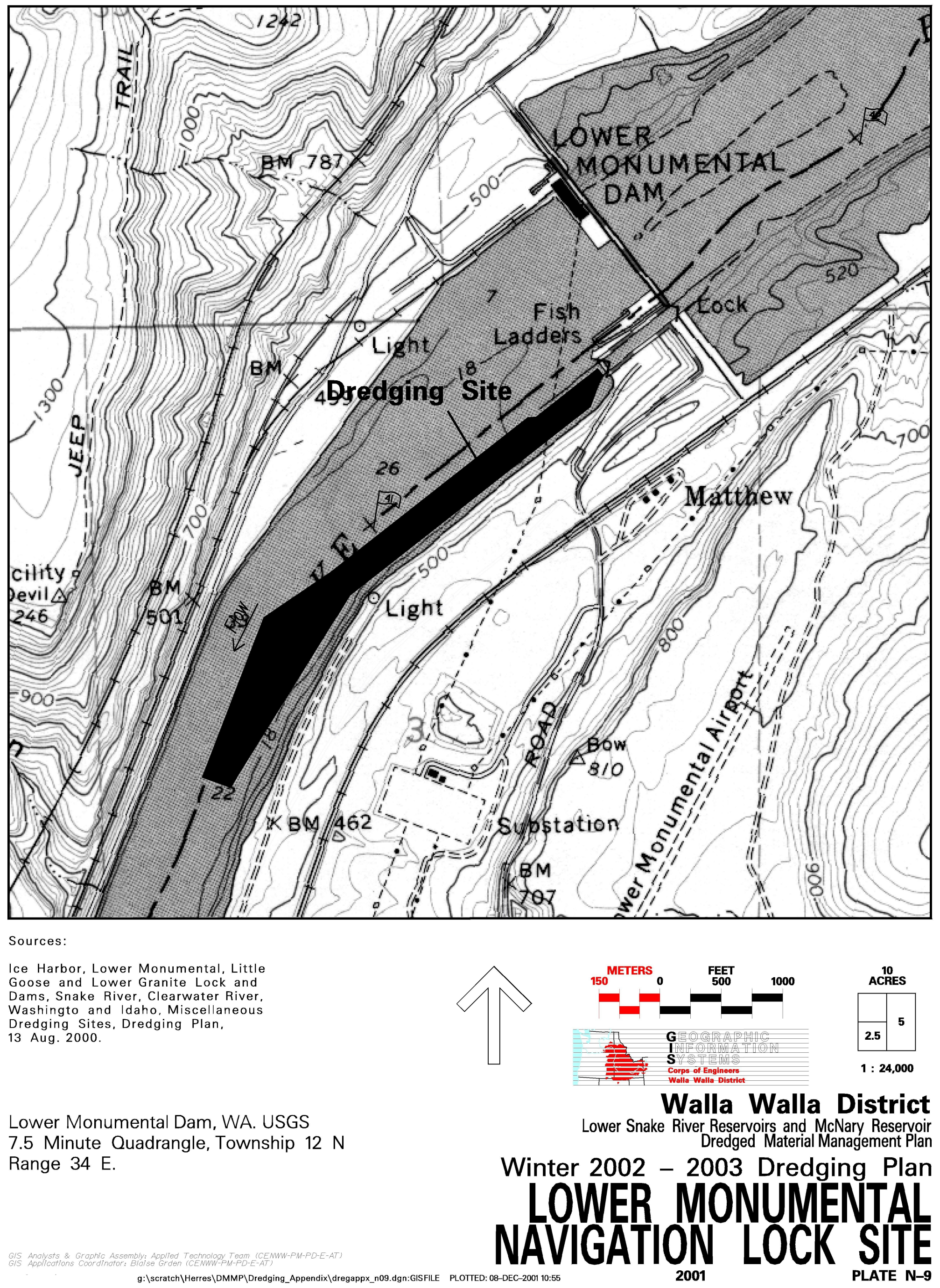
g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n08.dgn:GISFILE PLOTTED: 08–DEC–2001 10:53

2001

PLATE N–8

# Dr

Walla
Walla
District


1242
TRAIL
1000
BM 787
500
LOWER
MONUMENTAL
DAM
520
Lock
Fish
Ladders
7
Light
BM
495
18
Dredging Site
1300
JEEP
26
Matthew
700
cility
Devil
246
BM
501
700
500
Light
FLOW
800
900
18
3
ROAD
Bow
810
22
BM 462
Substation
Lower Monumental Airport
BM
707
900
METERS
150
0
FEET
500
1000
10
ACRES
5
2.5
1 : 24,000
GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

Lower Monumental Dam, WA. USGS
7.5 Minute Quadrangle, Township 12 N
Range 34 E.

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

**LOWER MONUMENTAL**
**NAVIGATION LOCK SITE**

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

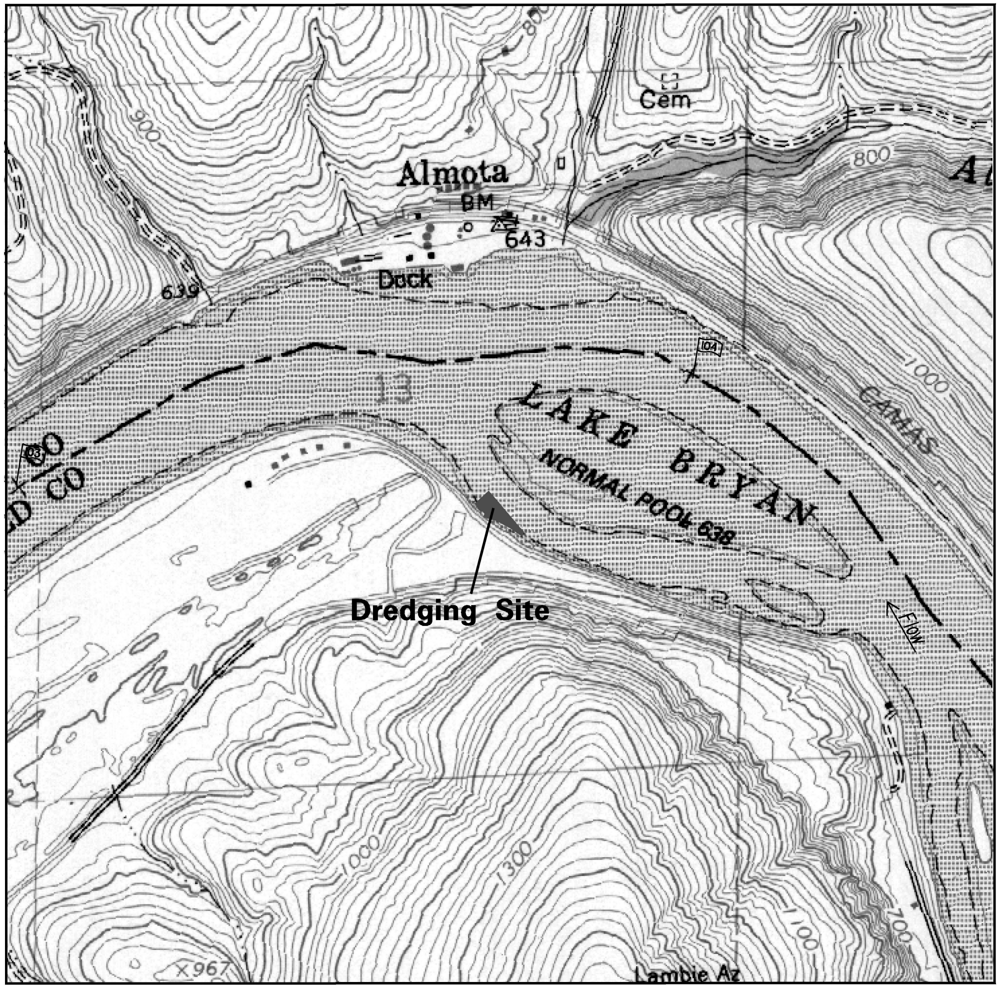
g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n09.dgn:GISFILE PLOTTED: 08–DEC–2001 10:55

2001

PLATE N–9

Dr

**Walla Walla District**


Cem
Almota
BM
643
Dock
639
800
900
103
104
13
LAKE BRYAN
NORMAL POOL 638
CAMAS
FLOW
Dredging Site
1000
1300
1100
700
X967
Lambie Az

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.

METERS
150 0
FEET
500 1000

10 ACRES
5
2.5
1 : 24,000

GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

Almota, WA. USGS 7.5 Minute
Quadrangle, Township 14, Range 43 E.

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

# ILLIA LANDING BOAT RAMP SITE

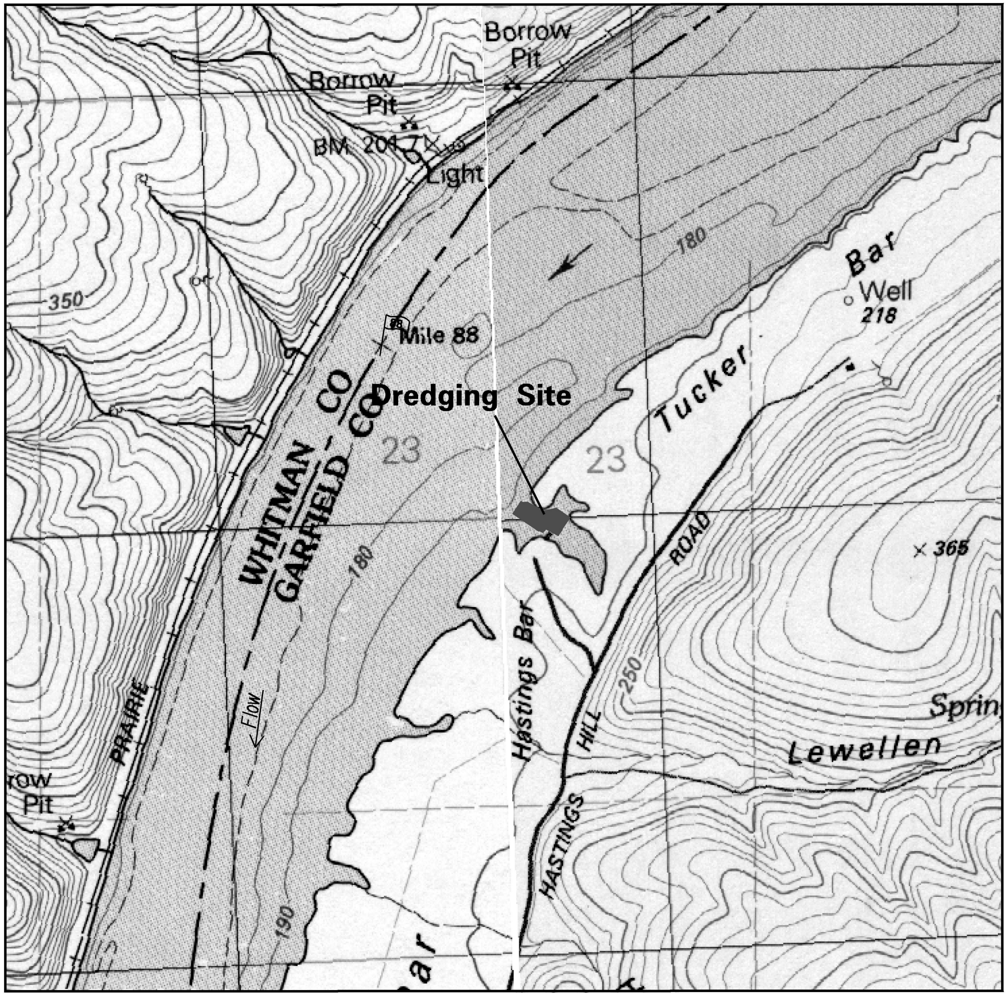
2001
PLATE N–10

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n10.dgn:GISFILE PLOTTED: 08–DEC–2001 10:57

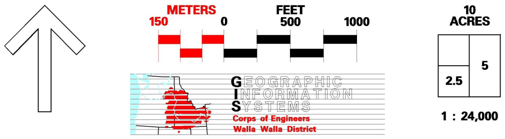
# Dr

Walla
Walla
District


Borrow
Pit
Borrow
Pit
BM 201.7
Light
350
180
Bar
Well
218
Mile 88
88
Dredging Site
WHITMAN CO
GARFIELD CO
23
23
Tucker
ROAD
365
180
Hastings Bar
250
HILL
Sprin
Lewellen
PRAIRIE
Flow
rrow
Pit
HASTINGS
190
ar

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000.


METERS
150
0
FEET
500
1000
10
ACRES
5
2.5
GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

1 : 24,000

Central Ferry and Ping, WA. USGS
7.5 Minute Quadrangles, Township 14 N,
Range 40 E.

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

## WILLOW LANDING BOAT RAMP SITE

2001

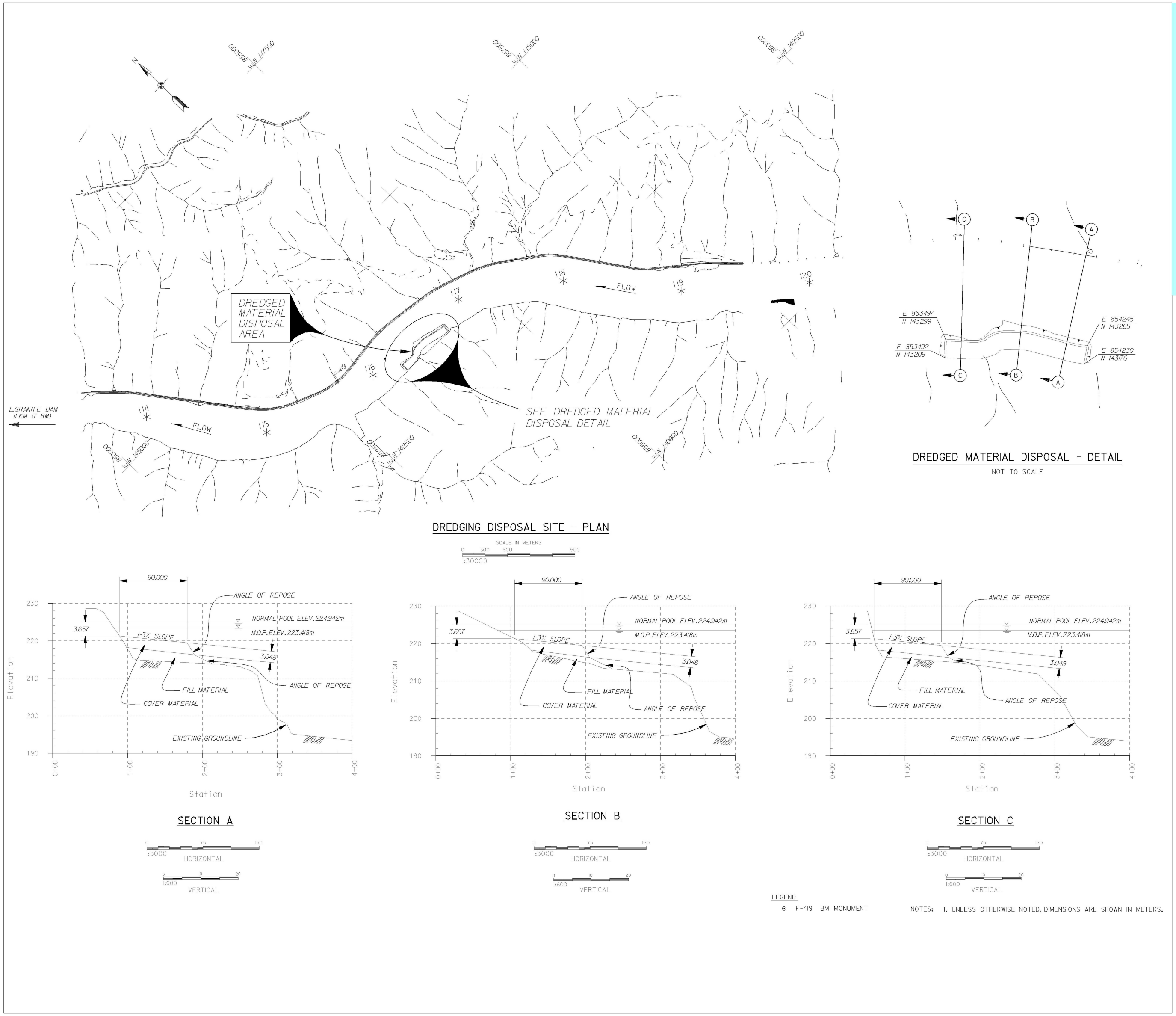
PLATE N–11

GIS Analysts & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT)
GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT)

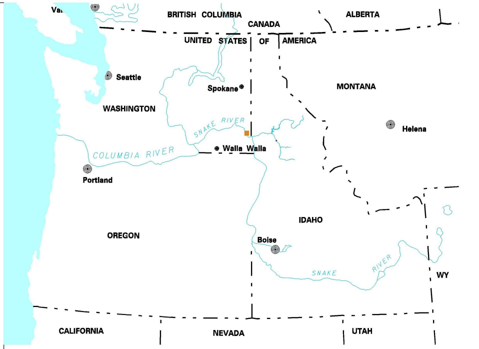
g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n11.dgn:GISFILE PLOTTED: 08–DEC–2001 10:59

# Dredged Material Management

Walla



N
905000
N 147500
907500
N 145000
910000
N 142500
DREDGED MATERIAL DISPOSAL AREA
SEE DREDGED MATERIAL DISPOSAL DETAIL
L.GRANITE DAM 11 KM (7 RM)
FLOW
114
115
116
117
118
119
120
F-419
902500
N 142500
900000
N 145000
907500
N 145000
DREDGING DISPOSAL SITE - PLAN
SCALE IN METERS
0 300 600 1500
1:30000
E 853497 N 143299
E 853492 N 143209
E 854245 N 143265
E 854230 N 143176
A
B
C
DREDGED MATERIAL DISPOSAL - DETAIL
NOT TO SCALE
90.000
ANGLE OF REPOSE
NORMAL POOL ELEV.224.942m
M.O.P.ELEV.223.418m
3.657
1-3% SLOPE
3.048
FILL MATERIAL
COVER MATERIAL
EXISTING GROUNDLINE
Elevation
230
220
210
200
190
0+00
1+00
2+00
3+00
4+00
Station
SECTION A
SECTION B
SECTION C
0 75 150
1:3000
HORIZONTAL
0 10 20
1:600
VERTICAL
LEGEND
F-419 BM MONUMENT
NOTES: 1. UNLESS OTHERWISE NOTED, DIMENSIONS ARE SHOWN IN METERS.



BRITISH COLUMBIA
CANADA
ALBERTA
UNITED STATES OF AMERICA
Seattle
Spokane
MONTANA
WASHINGTON
SNAKE RIVER
Helena
COLUMBIA RIVER
Walla Walla
Portland
IDAHO
OREGON
Boise
SNAKE RIVER
WY
CALIFORNIA
NEVADA
UTAH

Sources:

Ice Harbor, Lower Monumental, Little Goose and Lower Granite Lock and Dams, Snake River, Clearwater River, Washingto and Idaho, Miscellaneous Dredging Sites, Dredging Plan, 13 Aug. 2000

Granite Point, WA. USGS 7.5 Minute Quad.

GEOGRAPHIC
INFORMATION
SYSTEMS
Corps of Engineers
Walla Walla District

**Walla Walla District**
Lower Snake River Reservoirs and McNary Reservoir
Dredged Material Management Plan

Winter 2002 – 2003 Dredging Plan

## IN-WATER DISPOSAL SITE, RM 116

PLATE N-14

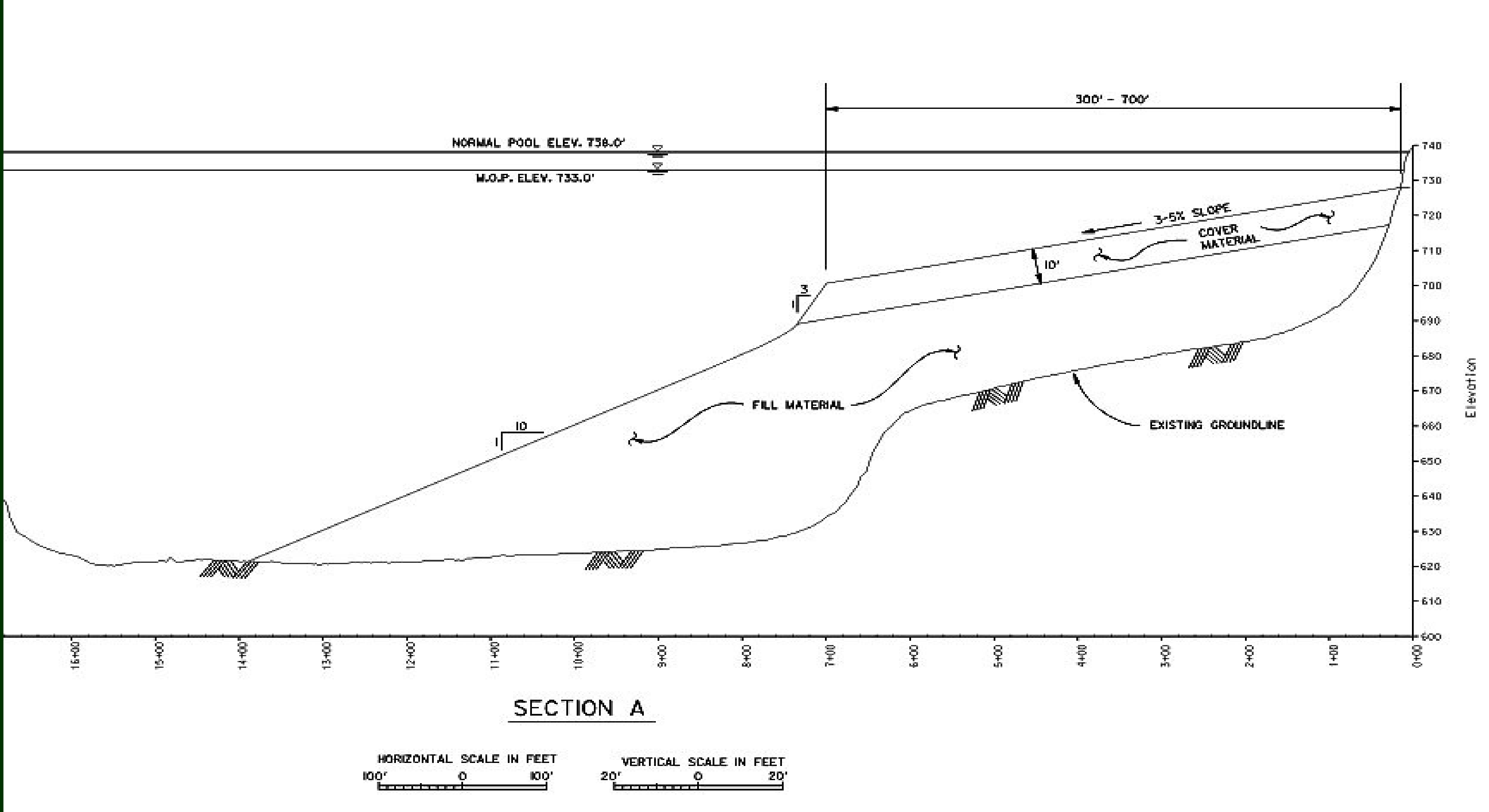
GIS Data Entry & Graphic Assembly: Applied Technology Team (CENWW-PM-PD-E-AT) GIS Conversion: George Hardin (CENWW-PM-PD-E-AT) GIS Applications Coordinator: Blaise Grden (CENWW-PM-PD-E-AT) Study Manager: Blaise Grden (CENWW-PM-PD-E-AT)

g:\scratch\Herres\DMMP\Dredging_Appendix\dregappx_n14.dgn:GISFILE PLOTTED: 07-DEC-2001 16:03

Walla Walla
District

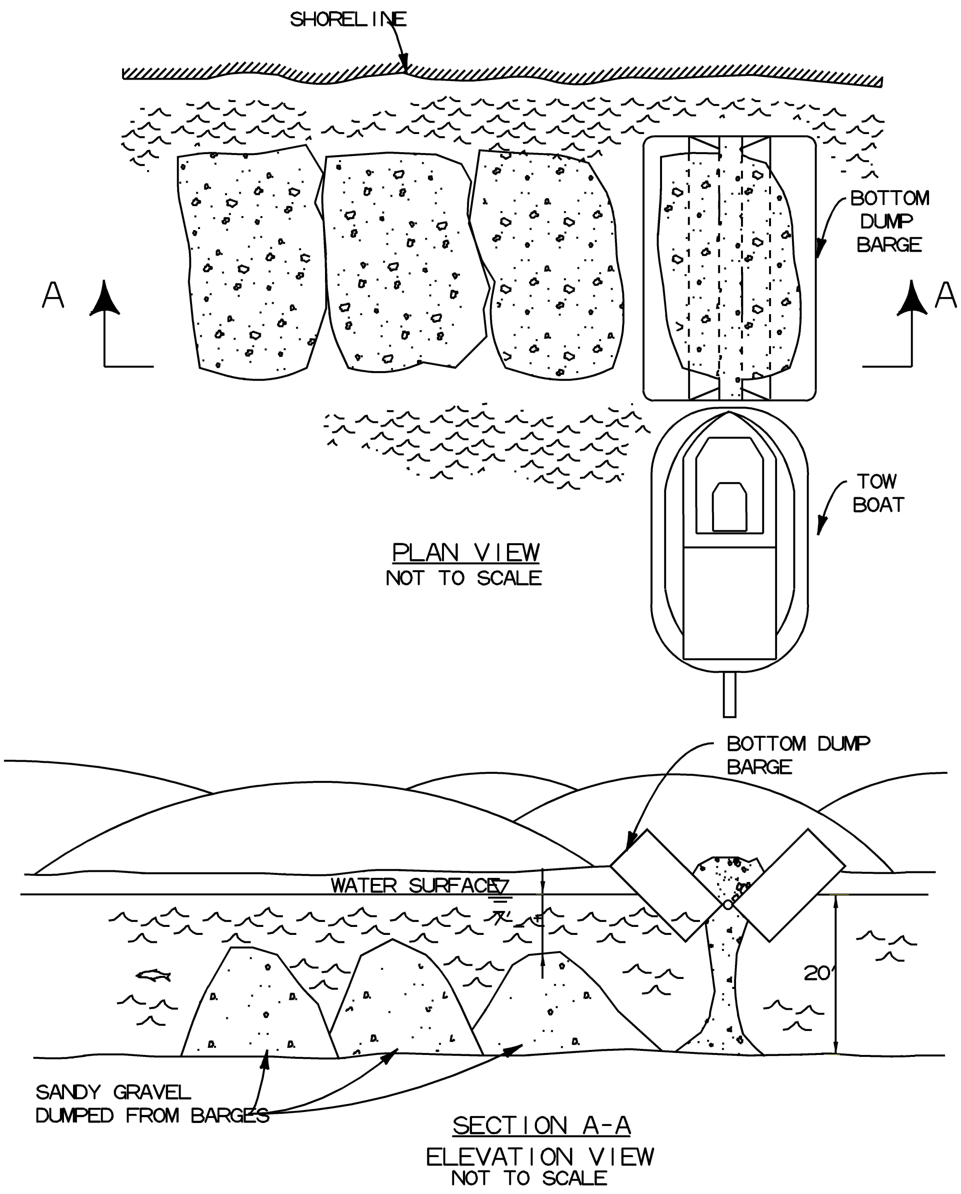
# Dredged Material Management Plan/EIS

## Proposed In-Water Disposal Method


300' – 700'
NORMAL POOL ELEV. 738.0'
M.O.P. ELEV. 733.0'
3-5% SLOPE
COVER MATERIAL
10'
3
1
10
1
FILL MATERIAL
EXISTING GROUNDLINE
740
730
720
710
700
690
680
670
660
650
640
630
620
610
600
Elevation
16+00
15+00
14+00
13+00
12+00
11+00
10+00
9+00
8+00
7+00
6+00
5+00
4+00
3+00
2+00
1+00
0+00
SECTION A
HORIZONTAL SCALE IN FEET
100' 0 100'
VERTICAL SCALE IN FEET
20' 0 20'

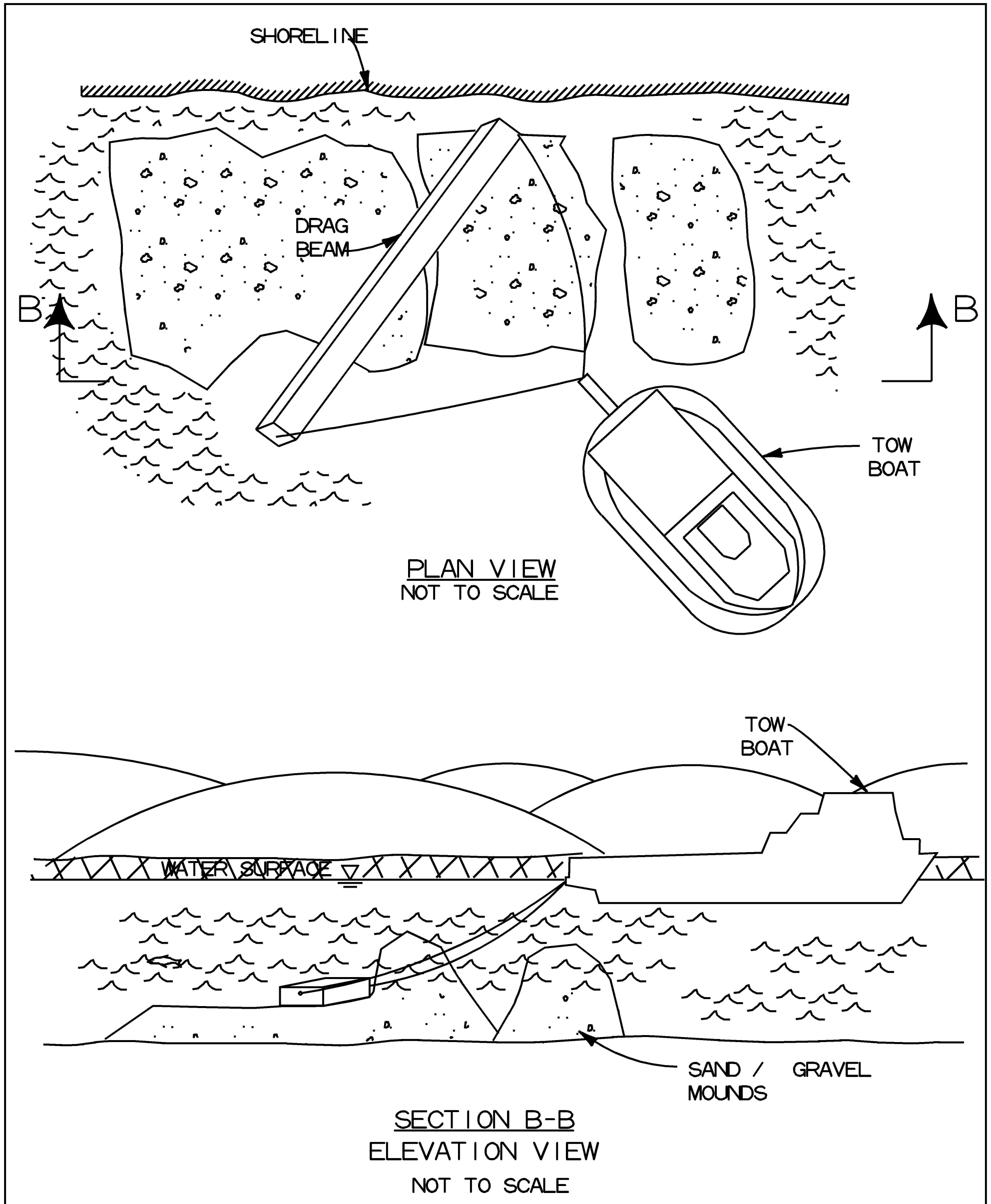
# D

**Walla Walla District**


SHORELINE
BOTTOM DUMP BARGE
A
A
TOW BOAT
PLAN VIEW
NOT TO SCALE
BOTTOM DUMP BARGE
WATER SURFACE
20'
SANDY GRAVEL DUMPED FROM BARGES
SECTION A-A
ELEVATION VIEW
NOT TO SCALE

SHALLOW WATER DISPOSAL - BOTTOM DUMP PROCESS
FIGURE 2-3

**Walla Walla District**

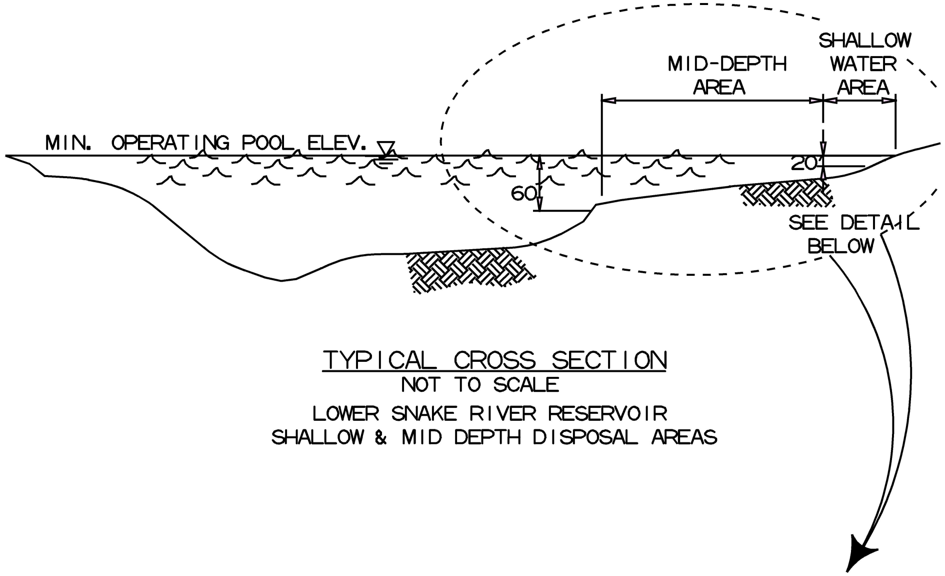

SHORELINE
DRAG BEAM
B
B
TOW BOAT
PLAN VIEW
NOT TO SCALE
TOW BOAT
WATER SURFACE
SAND / GRAVEL MOUNDS
SECTION B-B
ELEVATION VIEW
NOT TO SCALE

SHALLOW WATER DISPOSAL - DRAG BEAM COUNTOURING PROCESS

FIGURE 2-4

D

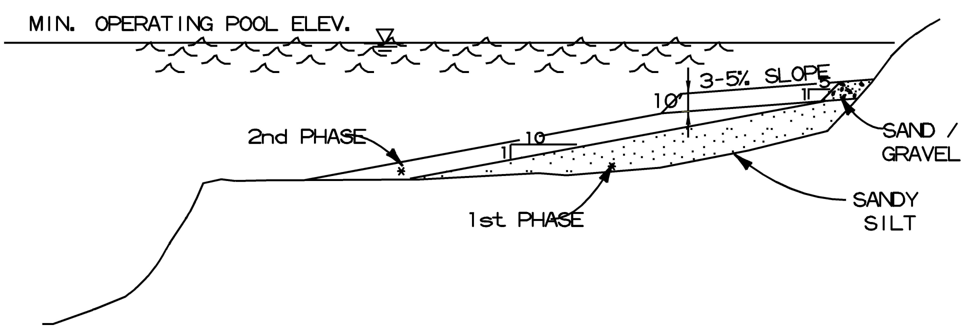
**Walla**
**Walla**
**District**


MIN. OPERATING POOL ELEV.
MID-DEPTH AREA
SHALLOW WATER AREA
60'
20'
SEE DETAIL BELOW

TYPICAL CROSS SECTION

NOT TO SCALE

LOWER SNAKE RIVER RESERVOIR
SHALLOW & MID DEPTH DISPOSAL AREAS


MIN. OPERATING POOL ELEV.
3-5% SLOPE
10'
5'
1
2nd PHASE
10
1
SAND / GRAVEL
SANDY SILT
1st PHASE

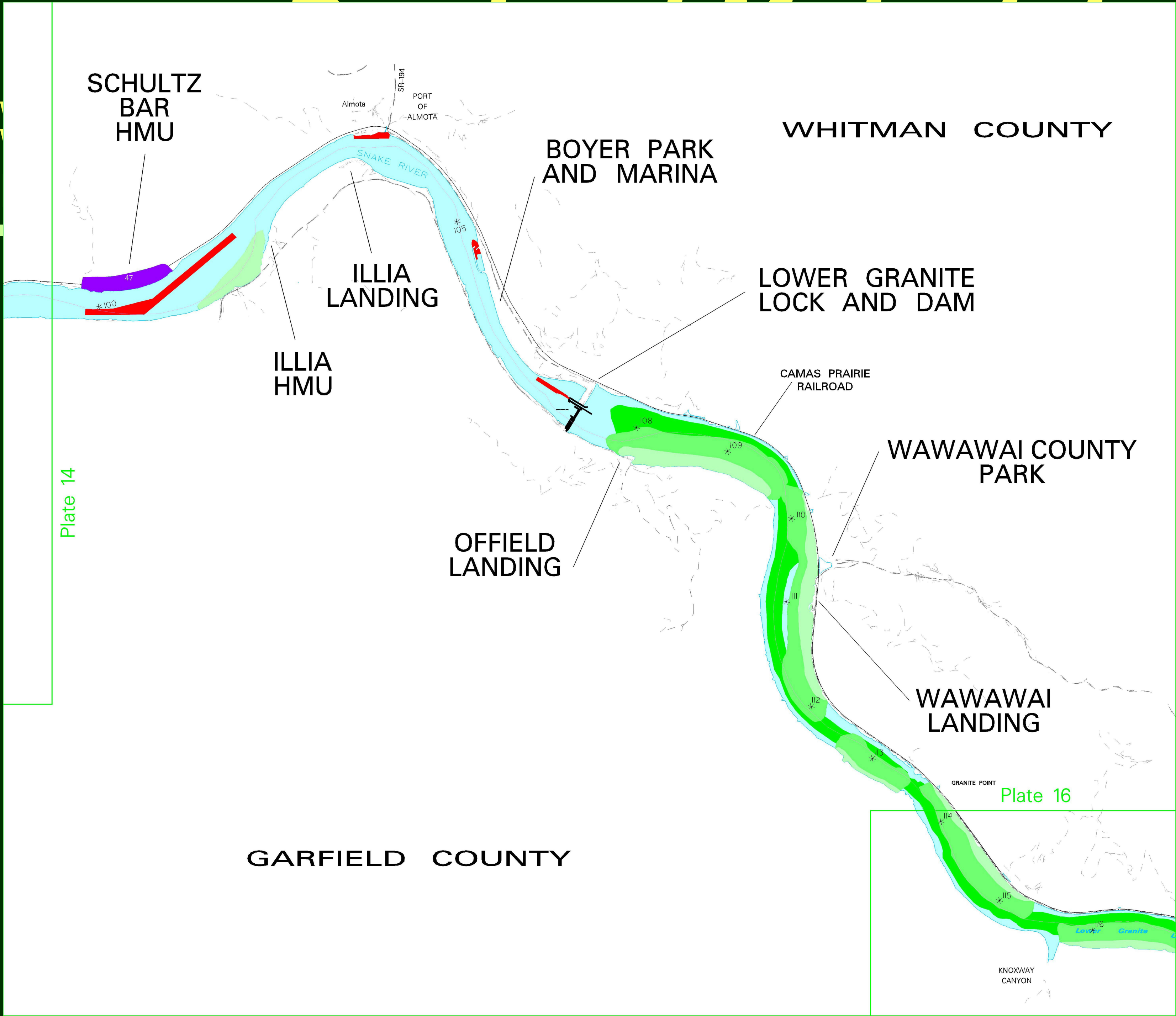
DETAIL

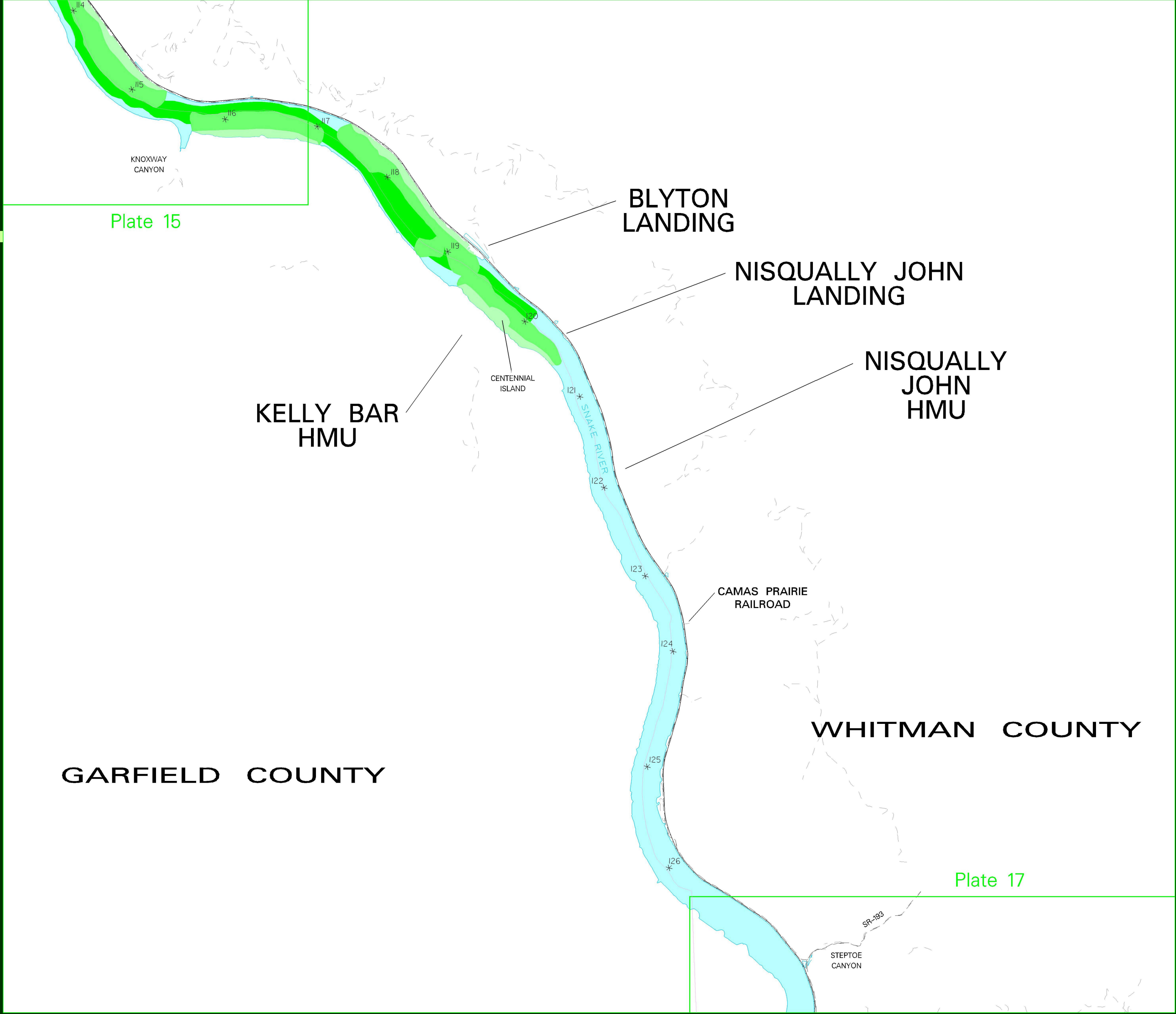
NOT TO SCALE

PHASED DEVELOPMENT DISPOSAL AREA
SHALLOW WATER HABITAT

SHALLOW MID-DEPTH DISPOSAL

FIGURE 2-6


SCHULTZ BAR HMU
Almota
SR-194
PORT OF ALMOTA
WHITMAN COUNTY
BOYER PARK AND MARINA
SNAKE RIVER
105
47
100
ILLIA LANDING
ILLIA HMU
LOWER GRANITE LOCK AND DAM
CAMAS PRAIRIE RAILROAD
108
109
WAWAWAI COUNTY PARK
110
OFFIELD LANDING
111
112
WAWAWAI LANDING
113
GRANITE POINT
Plate 16
114
115
116
Lower Granite
KNOXWAY CANYON
Plate 14
GARFIELD COUNTY


114
115
116
117
118
119
120
121
122
123
124
125
126
KNOXWAY
CANYON
Plate 15
BLYTON
LANDING
NISQUALLY JOHN
LANDING
NISQUALLY
JOHN
HMU
KELLY BAR
HMU
CENTENNIAL
ISLAND
SNAKE RIVER
CAMAS PRAIRIE
RAILROAD
WHITMAN COUNTY
GARFIELD COUNTY
Plate 17
SR-193
STEPTOE
CANYON